BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name of the work: **Estimate for Improvements to roads, drains and construction of Culverts at Singapura near Govt School Surroundings in ward No 11 (Kuvempunagara) in Vidyaranyapura Sub Division**

011-17-000008		P-3165			Est Cost Rs.			2500000.00
Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
1	KSRRB 300-1. **Earth work excavation by manual means in ordinary soil** involving an average horizontal throw upto 2 meters and an average lift upto 0.5m, excavated surface leveled and sides neatly dressed, the disposed earth to be leveled neatly after breaking of clods complete as per specifications complete as per specifications MORTH chapter 3. **Page No. 141 / Item No. 19.1 / PWD SR 2015-16**	Cum							
	Cross Roads at Varadarajaswamy Temple Road								
	Desilting of Drains at Cross Road R/S W0398		2	60.00	0.45	0.30	16.20		
			2	40.00	0.45	0.30	10.80		
	For road Leveling								
	Cross Road R/S W0398		1	60.00	6.00	0.25	90.00		
			1	40.00	6.00	0.30	72.00		
	Cross Road L/S W0396		1	60.00	6.00	0.30	108.00		
	Cross Road L/S W0345		1	50.00	6.60	0.25	82.50		
	Cds		4	5.30	1.80	1.20	45.79		
							425.29	192.79	**81993.00**
	Basic Rate	77.00							
	Add loading and unloading Charges **It No 17.1 KSRRB M 100-1**	68.00							
	Average weight of earth 1.28 tonne / kg for 11.90 Km = 1.28 T X 11.90Km X 2.2 / km= 33.51	33.51							
		178.51							
	Area Weightage @8%	14.28							
	Total	**192.79**							
2	KSRB 4-1.3 : Providing and laying in position plain cement concrete of **mix 1:4:8 with OPC cement @ 180 kgs with 40mm** and down size graded granite metal coarse aggregates @ 0.85cum and fine aggregares @ 0.57 cum machine mixed, concrete laid in layers not, exceeding 15cms, thick, well compacted, in foundation and plinth, including cost of all materials, labour, HOM of machinery, curing complete as per specifications. Specification No. KBS 4.1,4.2. **No. 12 / Item No. 4.3 / PWD SR 2015-16**	Cum							
	Cross Road R/S W0398		1	60.00	6.00	0.15	54.00		
			1	40.00	6.00	0.15	36.00		
	Cross Road L/S W0396		1	60.00	6.00	0.15	54.00		
	Cross Road L/S W0345		1	50.00	6.60	0.15	49.50		
	CDs		4	5.30	1.80	0.15	5.72		
							199.22	5070.60	**1010185.00**
	Basic Rate	4695.00							

Sl. No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Area Weightage @8%	375.60							
	Total	**5070.60**							
3	KSRB 4-6.4 : Providing and removing **centering, shuttering, strutting,** propping etc., and removal of form work for vertical surface such as walls at any thickness, including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specifications. Specification NO KBS 4.6.2 Page No. 15 / Item No. 4.31 / PWD SR 2015-16	**sqm**							
	Cross Road R/S W0398 for Road Edges		2	60.00		0.30	36.00		
			2	40.00		0.30	24.00		
	Cross Road L/S W0396		2	60.00		0.30	36.00		
	Cross Road L/S W0345		2	50.00		0.30	30.00		
	Cd side wall		4x4	5.30		0.90	76.32		
							202.32	306.72	**62056.00**
	Basic Rate	284.00							
	Area Weightage @8%	22.72							
	Total	**306.72**							
4	KSRRB M600-6: cement concrete pavement, construction unreinforced plain cement concrete pavement, thickness as per design, over a prepared sub base with 43 grade cement or any other type as per clause 1051.2.2M20/M30 at 380/450 kg per cum, coarse and fine aggregate conforming to IS: 383, maximum size of coarse aggregate not exceeding 25mm, mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including leveling the form work as per drawing,), spreading the concrete with shovels, rackers compacted using needle, scred and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints, **including groove cutting charges**, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved curing compound, finishing to lines and	Cum							
	Cross Road R/S W0398 for CC Road		1	60.00	6.00	0.125	45.00		
			1	40.00	6.00	0.125	30.00		
	Cross Road L/S W0396		1	60.00	6.00	0.125	45.00		
	Cross Road L/S W0345		1	50.00	6.60	0.125	41.25		
							161.25	5287.68	**852638.00**
	Basic Rate	4896.00							
	Area Weightage @8%	391.68							
	Total	**5287.68**							

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
5	Providing and laying cement concrete using 20mm and down size granite jelly of ready mixed concrete (RMC)for R.C.C works laid in 15cms thick layers and well compacted vibrating, curing, finishing with necessary cement mortar, form works and scaffoldings to withstand pumping of concrete, with all lead and lifts etc., complete (exclusive of cost of steel and fabrication charges.) Ready mixed Cement concrete M-20 (1:1.5:3) for raft foundation, column footing, main and secondary beams. **Page No. 18 / Item No. 4.48 / PWD SR 2015-16**	Cum							
	For Cds bottom		4	5.30	1.50	0.15	4.77		
	side wall		8	5.30	0.30	0.90	11.45		
							16.22	6332.04	**102693.00**
	Basic Rate	5863.00							
	Area Weightage @8%	469.04							
	Total	**6332.04**							
6	KSRB 4.9.2 : Providing **T .M.T steel reinforcement** for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 for TMT Bars Fe500 **Page No 17., I.No.4.46.2 of KPWD S.R 2015-16**	**Tonne**							
	taking 80kg/cum		0.08	16.22	80 kg/cum		**1.30**	59327.91	**76974.00**
	Basic Rate	54933.25							
	Area Weightage @8%	4394.66							
	Total	**59327.91**							
7	Providing **precast slab of 250mm thick** including cost of all materials, labour, curing,transportation,loading unloading, etc.,complete as per the direction of engineer in charge- Data rate	**sqm**							
	culvert deck slab		4	5.30	1.50		**31.80**	5125.00	**162975.00**
	Approved Data rate	**5125.00**							
8	Vaccum De-watering with vaccum pump and suction mat and compaction with **skin floater clubbed with floating disc** including cost of generator HOM of machinery Screed Vibratiry, Power Floater, blade and disc etc., with all lead and lift No. **174 / Item No. 22.7 / PWD SR 2015-16**	Sqm							
	Cross Road R/S W0398 for CC Road Floater		1	60.00	6.00		360.00		
			1	40.00	6.00		240.00		
	Cross Road L/S W0396		1	60.00	6.00		360.00		
	Cross Road L/S W0345		1	50.00	6.60		330.00		
							1290.00	97.20	**125388.00**

No	Description	Unit	No.	L	B	D	Qty	Rate	Amount
	Basic Rate	90.00							
	Area Weightage @8%	7.20							
	Total	**97.20**							
	Sub Total								**2474902.00**
	Third Party Inspection Charges @ 1%								**24749.00**
	Miscellaneous and other Charges	L/S							**349.00**
								Total	**2500000.00**
Rupees Twenty Five Lakh(s) Only									

CERTIFICATE:

1 The work spot has been inspected and the work is found necessary.
2 This estimate is prepared as per PWD SR of 2015-16.
3 The provisions were made in this estimate are necessary and adequate.
4 This works come under B.B.M.P. limits.

Assistant Engineer
Ward No. 11

Assistant Executive Engineer
Bruhat Bangalore Mahanagara Palike
Vidayranyapura Sub Division

Executive Engineer
Bruhat Bangalore Mahanagara Palike
Byatarayanapura Division
24/12

Administrative Approval
Accorded For 25.00 lakh Rs.
Head of A/C P-3165
CER NO : 78 Dt: 31/12/16

TA CE (YNK)

Technical Sanction
Accorded For 25.00 lakh Rs.
Head of A/C P-3165
CER NO : 88 Dt: 31/12/16

TA CE (YNK)